BOAT RAMP IMPROVEMENT AND PARKING AREA EXPANSION AT

FAIRWEATHER FISHING ACCESS SITE

CLARKSTON, MT

FWP # 7113724

PROJECT LOCATION

Location Map

North

CLARKSTON PROJECT LOCATION TRIDENT THREE FORKS LOGAN

Vicinity Map

DESIGN AND CONSTRUCTION BUREAU

MAILING ADDRESS:

PHYSICAL ADDRESS:

PO BOX 200701

1522 9th AVENUE HELENA, MT 59601

HELENA, MT 59620-0701

TEL 406.841.4000 FAX 406.841.4004

fwp.mt.gov/Doing Business/Design&Construction

MONTANA FISH, WILDLIFE AND PARKS

SHEET 1: COVER SHEET 2: OVERALL SITE PLAN

SHEET 3: SITE DETAILS

SHEET 3: SITE DETAILS

SHEET 4: PROFILE 1 - BOAT RAMP

SHEET 5: PROFILE 2 - PARKING AREA EXPANSION

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SHEET 7: BOAT RAMP CROSS SECTIONS, AND VOLUME TABLE

DRAWING INDEX



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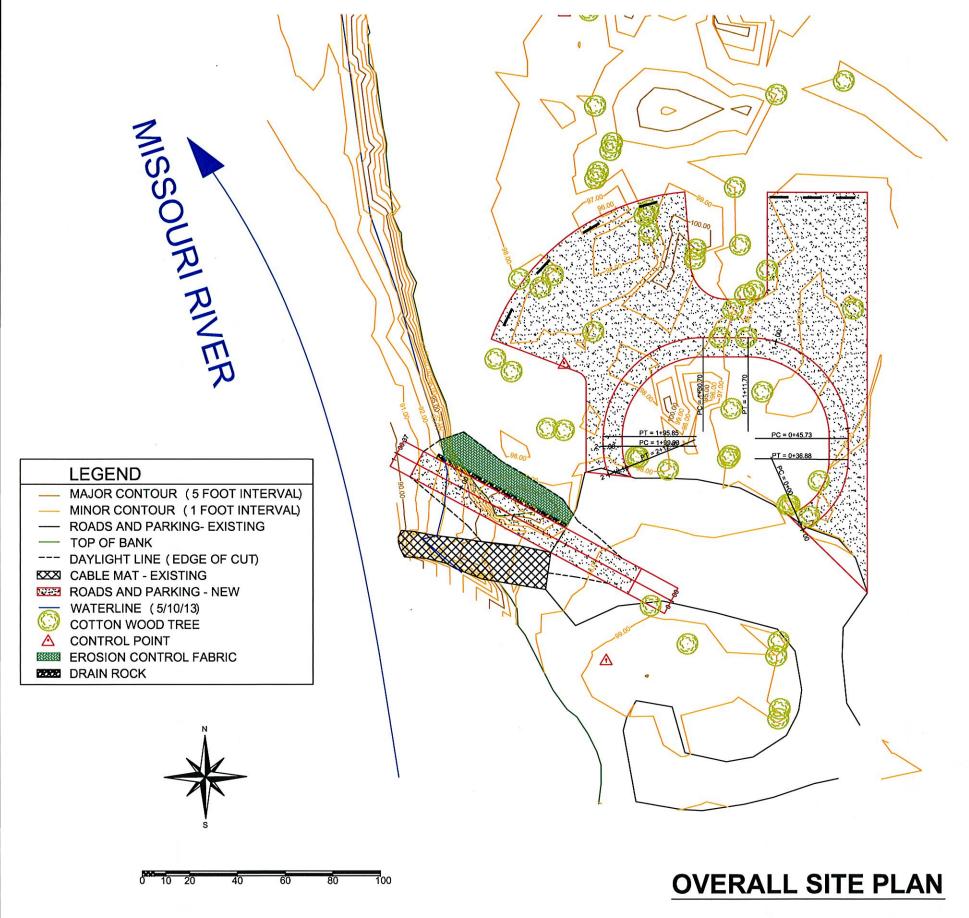
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Montana Fish, Wildlife & Parks COVER

Fairweather FAS near Clarkston, MT





Notes:

- 1) FWP Engineer will stake radius points, parking comers, centerline stations of alignments and provide reference elevations.
- 2 The Contractor shall use best management practices to prevent silt, soil and debris from entering the water. This may include straw, gravel or fabric. Temporary dikes to divert rainwater may be used, provided they are removed and the gravel or soil returned to the original condition. Exposed soil may require straw or similar cover to minimize erosion caused by rain. Other appropriate methods may be used at the Contractors' discretion or as directed by the owner.
- 3) Equipment used in or near water shall not leak fluids. It shall be power washed before use on the site and examined by the engineer.
- 4) Assuming a 4" depth of root zone, the total excavation required to subgrade elevation is estimated to be 360 cubic yards, including boat ramp grade. Excavation is bid as a lump sum.
- 5) All excess excavated material shall be removed to spoils area, leveled to match natural grades, and seeded. All areas disturbed during construction shall be seeded. Refer to Section 02936. The spoils area will be located on adjacent FWP property.
- 6) Remove trees within the new parking area. Refer to Section 02110. Limd trees and remove any remaining roots. All material from the limbs and roots to be removed from the site. Logs shall be placed as barriers as determined by FWP Engineer.
- 7) Existing barrier rocks shall be removed as necessary to allow for parking area expansion. Removed barrier rocks will be placed along the edge of the new parking area as determined by FWP Engineer. No new barrier rocks will be required. Bidders are to include the cost of removing and placing the barrier rocks under the Excavation bid item.
- 8) All material removed from the site shall be disposed of in a safe and legal manner.
- 9) Transitions from new graveled areas to vegetated areas shall be uniform, well defined, and follow the alignment of the roads and parking layouts.
- 10) The contractor is responsible for locationg and protecting utilities within the construction area including access routes to the construction area.
- 11) The contractor is required to notify and coordinate all work activities with the FWP Project Engineer. Public notification of site closure may be necessary, and requires a minimum notice of seven days.
- 12) Submittals are required on all products used in the project, refer to specifications for
- 13) Provide methods, means, and facilities to prevent contamination of soil, water, and atmosphere from discharge of noxious, toxic substances, and pollutants produced by construction operations.
- 14) Provide all temporary signing, personnel and traffic control devises as required by federal, state and local regulations.
- 15) Geotechnical Information: The soils at the site are sandy loams stratified with coarse sand and gravel, the depth to a restrictive feature is over 80 inches.
- 16) The Owner is responsible for obtaining all necessary permits.

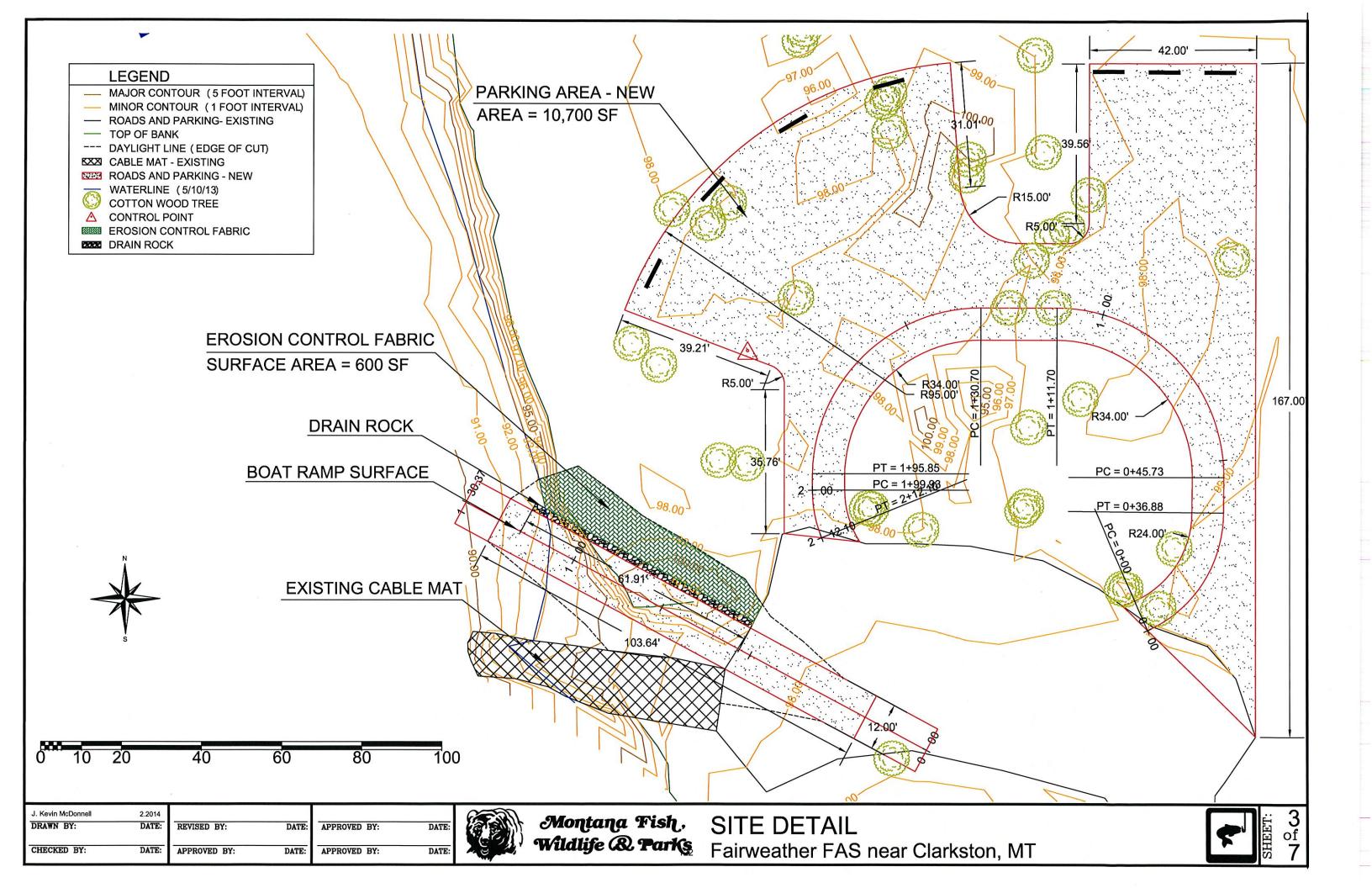
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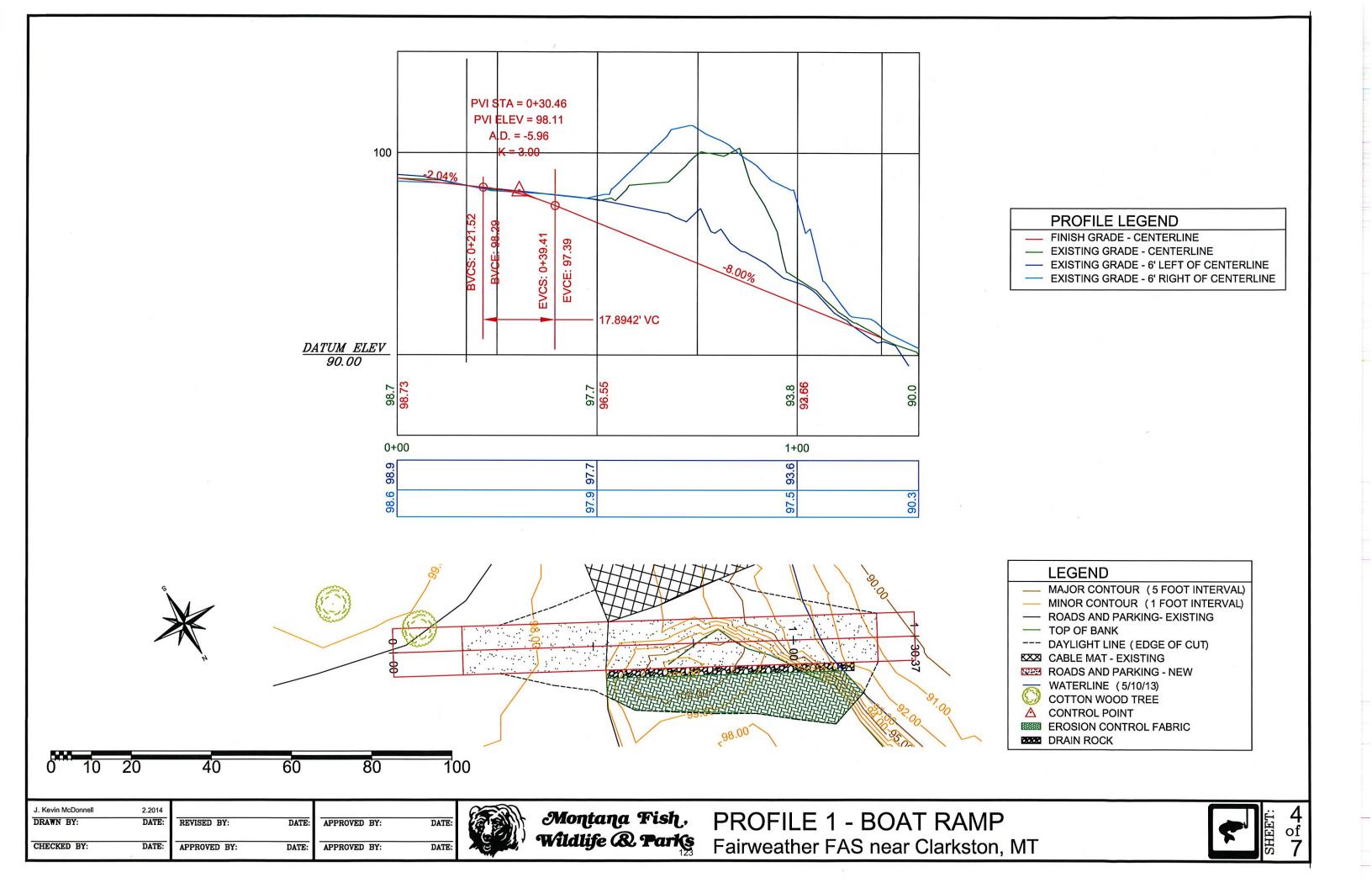
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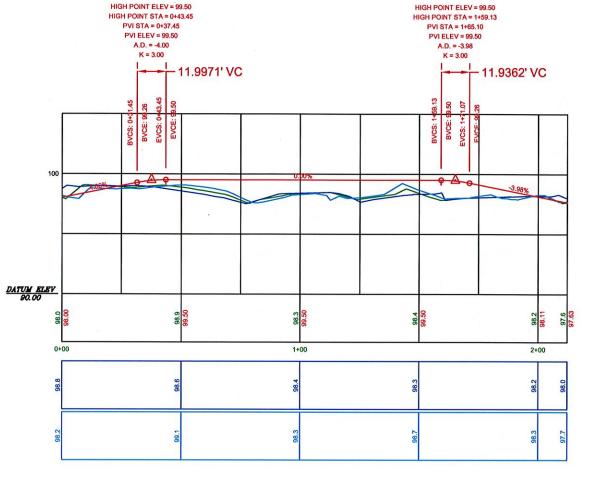


Montana Fish, OVERALL SITE PLAN Wildlife @ Parks Fairweather FAS near Clarkston, MT







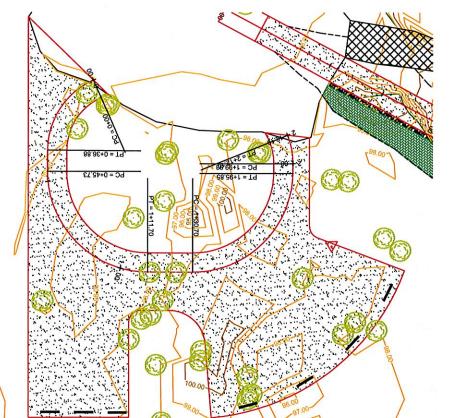


PROFILE LEGEND

- FINISH GRADE CENTERLINE
- EXISTING GRADE CENTERLINE
- EXISTING GRADE 8' LEFT OF CENTERLINE
- EXISTING GRADE 8' RIGHT OF CENTERLINE







LEGEND

- MAJOR CONTOUR (5 FOOT INTERVAL)
- MINOR CONTOUR (1 FOOT INTERVAL)
- ROADS AND PARKING- EXISTING
- TOP OF BANK
- --- DAYLIGHT LINE (EDGE OF CUT)
- CABLE MAT EXISTING
- ROADS AND PARKING NEW
- WATERLINE (5/10/13)
 COTTON WOOD TREE
- △ CONTROL POINT
- EROSION CONTROL FABRIC
- DRAIN ROCK

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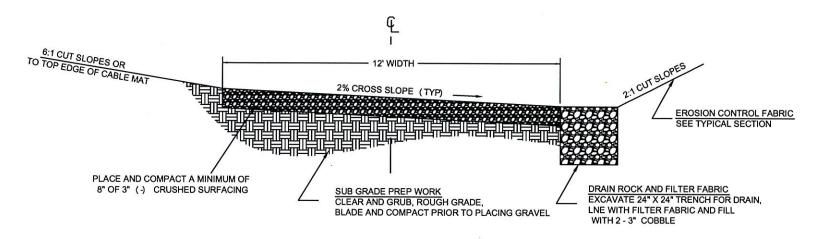


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Wildlife & Parks

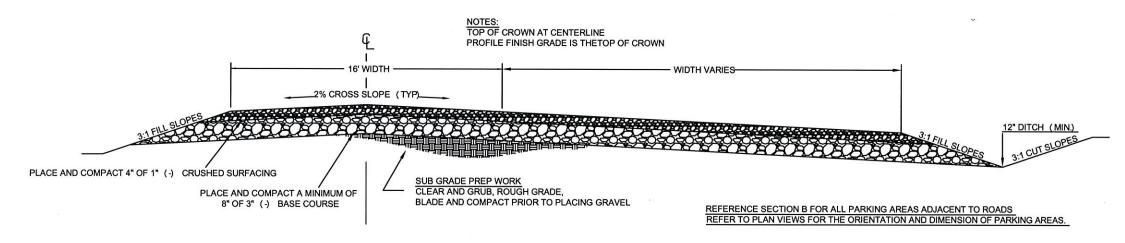
PROFILE 2 - PARKING AREA EXPASION Fairweather FAS near Clarkston, MT



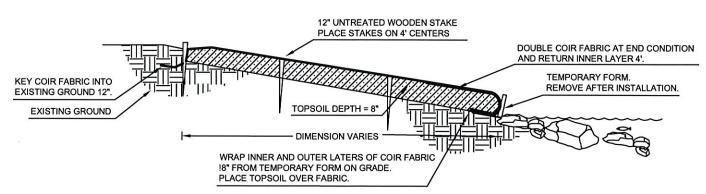
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TYPICAL 12' BOAT RAMP SECTION: SECTION A



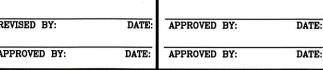
TYPICAL ROAD AND PARKING SECTION: SECTION B NOT TO SCALE



EROSION CONTROL FABRIC SECTION

NOT TO SCALE

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Montana Fish, TYPICAL SECTIONS
Wildlife & Parks
Fairweather FAS near Clarkston, MT



BOAT RAMP CROSS SECTIONS AND VOLUME TABLE NOTES:

- 1. EXCAVATION VOLUMES AS SHOWN IN THE VOLUME TABLE ARE CALCULATED TO THE FINISH GRADE.
- 2. REER TO TYPICAL SECTIONS FOR CUT SLOPES AND DETAILS.

CROSS SECTION LEGEND

VOLUMES

Cubic Yards

FILL

0.00

0.00

0.00

0.00

0.00

0.00

0.00

0.00

0.15

0.15

0.00

CUT

2.43

6.56

16.80

30.90

40.85

40.25

30.88

20.69

8.86

0.99

0.00

CUMULATIVE VOLUMES

Cubic Yards

FILL

0.00

0.00

0.00

0.00

0.00

0.00

0.00

0.00

0.15

0.29

0.29

CUT

2.43

9.00

25.79

56.69

97.54

137.78

168.67

189.35

198.22

199.20

199.20

— FINISH GRADE

EXISTING GRADE

AREAS

Square Feet

FILL

0.00

0.00

0.00

0.00

0.00

0.00

0.00

0.00

0.00

0.79

0.00

CUT

2.38

10.75

24.70

66.02

100.82

119.75

97.58

69.18

42.53

5.33

0.00

STATION

0 + 30

0+40

0+50

0+60

0+70

0+80

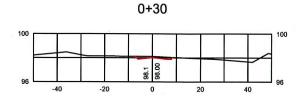
0+90

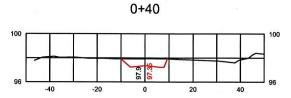
1+00

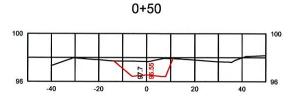
1+10

1+20

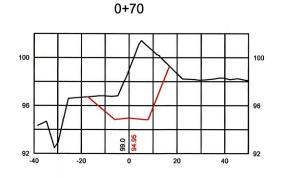
1+30

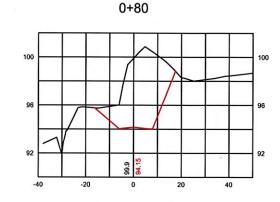


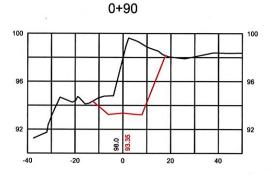


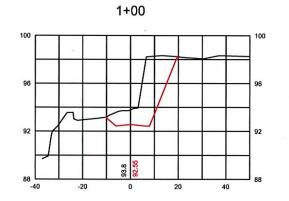


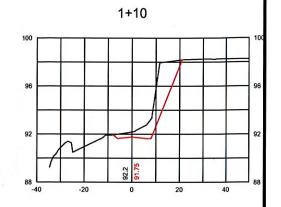
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-40	-2	20	98.4	95.75	2	0	4	0	

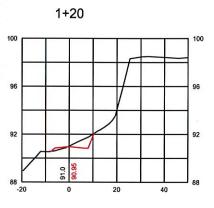


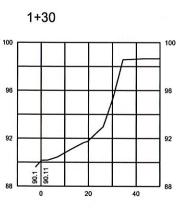












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